**Project Four**

You have just started work for a small county in the state of Eastland. It’s almost Election Day and the election officials need a program to help tally election results. There are two candidates per office. The election official will input the candidate names (as a single word: First\_Last). {If you want to separate the first and last name, create a new scanner and use it to get the name; that means you will have two different scanners.} The number of reporting precincts is expected to change (because of redistricting) for a particular election cycle but the election officials will supply this number. The program should run until there are no more offices for which to calculate results. Try using a Boolean to control this loop.

The program should take as input the number of votes each candidate received in each voting precinct and find the total number of votes. The program should print the final tally for each candidate—both the total number of votes received and the percent of votes received; the program should also identify the candidate with the most votes. In addition, the election officials want to know how many precincts each candidate won. Test with the following candidates and precinct information. Each test represents a different office:

|  |  |
| --- | --- |
| Pearl\_Night | Sunny\_Day |
| 200 | 305 |
| 303 | 303 |
| 105 | 100 |
| 260 | 65 |

Test1:

|  |  |
| --- | --- |
| Victory\_Titan | Orlando\_Shirley |
| 306 | 250 |
| 350 | 300 |
| 50 | 125 |
| 0 | 200 |

Test2:

Test 3: 0 precincts Test4: 1 precinct (you decide the names and the votes)

**Additional Requirements:**

Place the header comments at the top: Author, code class name, purpose

Place the pseudo code at the top.

Comment the purpose of every variable

Comment code segments

Email the .java file and screenshot of testing results that shows the running program and the stopping condition.

**Rubric**

|  |  |
| --- | --- |
| **10** | **Pseudo Code** |
| **10** | **Header, variable and section comments** |
| **40** | **Testing evidence and correct results; show stopping the program** |
| **20** | **Compiles/Runs, Code, Follows Submission requirements** |
| **20** | **Loop for multiple offices/tests (show in testing screenshots continuing and stopping the program)** |